



# Dongfeng Cummins Curve and Datasheet

Engine Type: ISDe185 30(Truck)

Curve Number: FR92155



# Dongfeng Cummins Engine Co.,Ltd

## Engine Performance Curve FR92155

### EURO 3

Engine Model: ISDe185 30

Engine Configuration: D313003BX03

Advertised Power: 136 kW @ 2500 rpm

CPL: 1995

185 PS @ 2500 rpm

Peak Torque: 700 N.m @ 1400 rpm

Displacement: 6.7 L

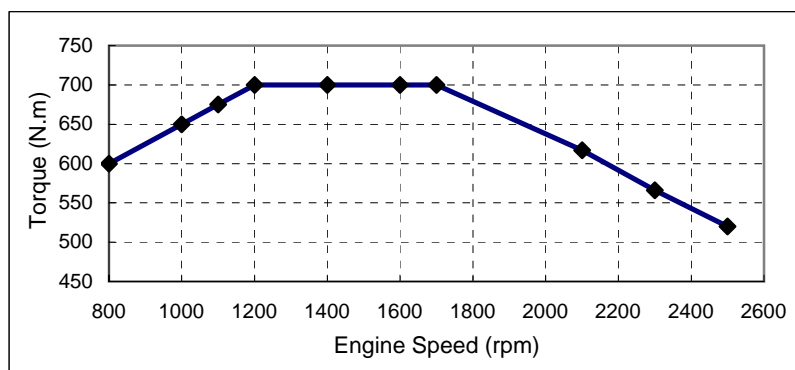
Bore: 107 mm

Aspiration: Turbocharged & Charge Air Cooled

Cylinders: 6

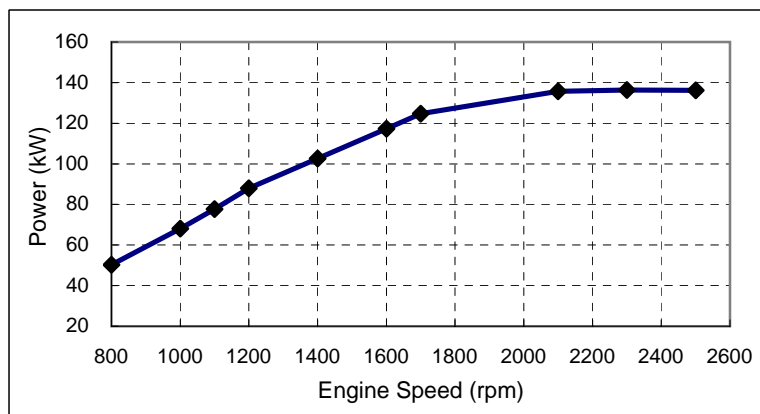
Stroke: 124 mm

Fuel System: Bosch (HPCR)



### Torque

rpm	N.m
800	600
1000	650
1100	675
1200	700
1400	700
1600	700
1700	700
2100	617
2300	566
2500	520



### Power

rpm	kW
800	50
1000	68
1100	78
1200	88
1400	103
1600	117
1700	125
2100	136
2300	136
2500	136

Performance data shown is nominal, and is to 80/1269/EEC(as amended) conditions of 990mbar barometric pressure and 25 deg C air intake temperature.

All data are based on the engine operating with fuel system, water pump, lubricating oil pump and with inle restriction and exhaust restriction at or below datasheet limits. Not included are compressor,fan,alternator, optional equipment and driven components.



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### General

Certification: GB 17691—2005  
Compression Ratio: 17.3:1

### Air Intake System

Max. temperature rise between ambient air and turbo air inlet: 15 °C  
Max. intake restriction with dry type air cleaner, with clean filter  
Medium Duty: 2.9 kPa  
Heavy Duty: 3.7 kPa  
Max. intake restriction with dirty filter: 6.2 kPa

### Charge Air Cooling

Max. temperature rise between ambient air and intake manifold: 30 °C  
Max.  $\Delta P$  between turbo out and manifold in: 13.5 kPa  
Intake pipe size normally acceptable: 65 mm dia

### Exhaust System

Max. back pressure imposed by complete exhaust system: 10 kPa  
Exhaust pipe size normally acceptable: 75 mm dia

### Cold Start Performance

Min. unaided cold start temperature: -12 °C @120 average rpm  
Min. aided cold start temperature: -24 °C @120 average rpm

### Performance Data

Idle Speed: 600 - 800 rpm  
Maximum no load governed speed: 2850 rpm  
Maximum over speed capability(15secs max.): 4200 rpm  
Maximum altitude for continuous operation: 4700 m  
Clutch engagement torque at 800rpm: 610 N.m  
When using exhaust brakes:  
Exhaust pressure, at 2850rpm, at turbocharger outlet, must not exceed: 413 kPa  
Approximate engine retardation: TBD kW

Engine Speed RPM	Oil Pressure kPa	Air to Turbo m³/min	Air From Turbo		Exhaust Flow m³/min	Exhaust Temp °C	Fuel Consumption kg/hr	Coolant Flow l/min	Heat Rejection		Friction Power kW
			Flow kg/min	Pressure Pa					Coolant kW	Air kW	
2500	418.9	10.17		152.1		516.854		246.5667	63.7	19.4	34.0
2300	414.7	9.72		154.3		556.891		226.6333	66.9	20.4	28.0
1400	332.5	5.93		136.8		552.47		140.9667	51.68178	11.0327	13

All values within  $\pm 5\%$

Base engine data refer to Datasheet D313003BX03

All data subject to change without notice. Dongfeng Cummins Engine Co., Ltd